

## Figures

Figure 1 – Simulated lamotrigine pharmacokinetic profile for 200mg lamotrigine (Lamictal™) dose administered twice daily.

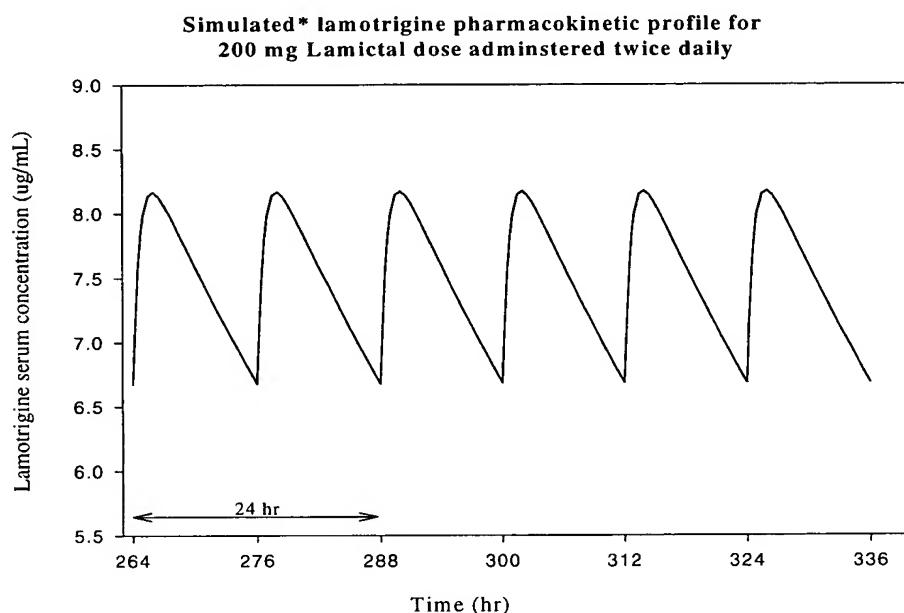


Figure 2. Dissolution profile of three different batches of lamotrigine (Lamictal™) 150mg tablets.

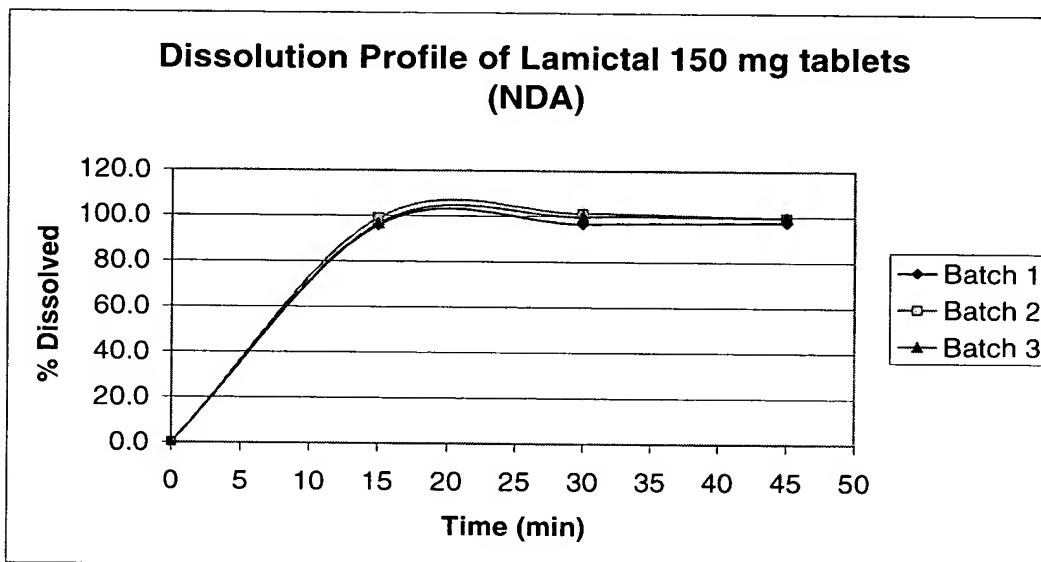


Figure 3a: Matrix Tablet From Example 1 with 35% Polymer

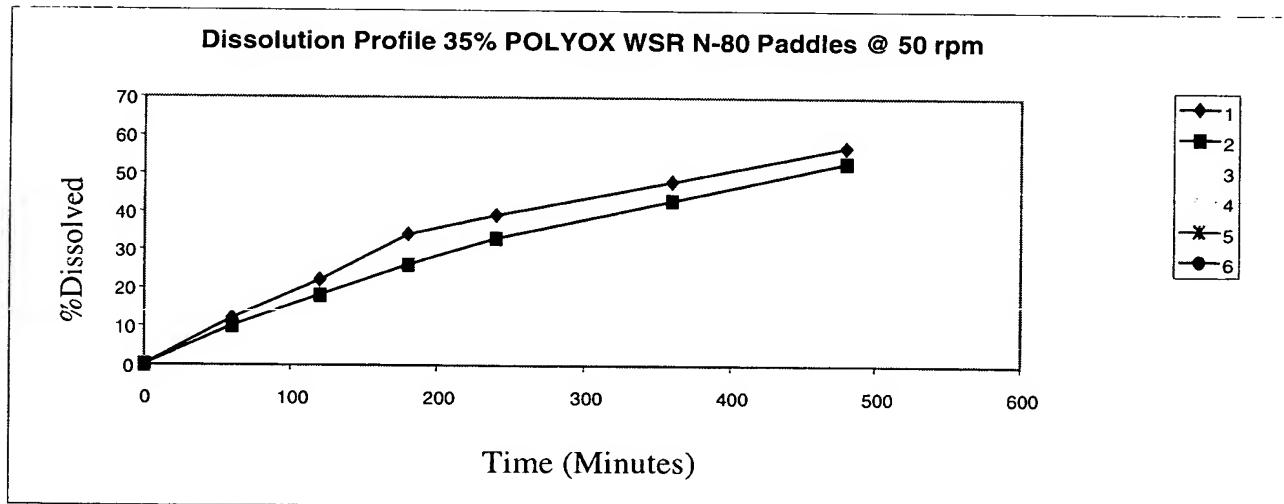
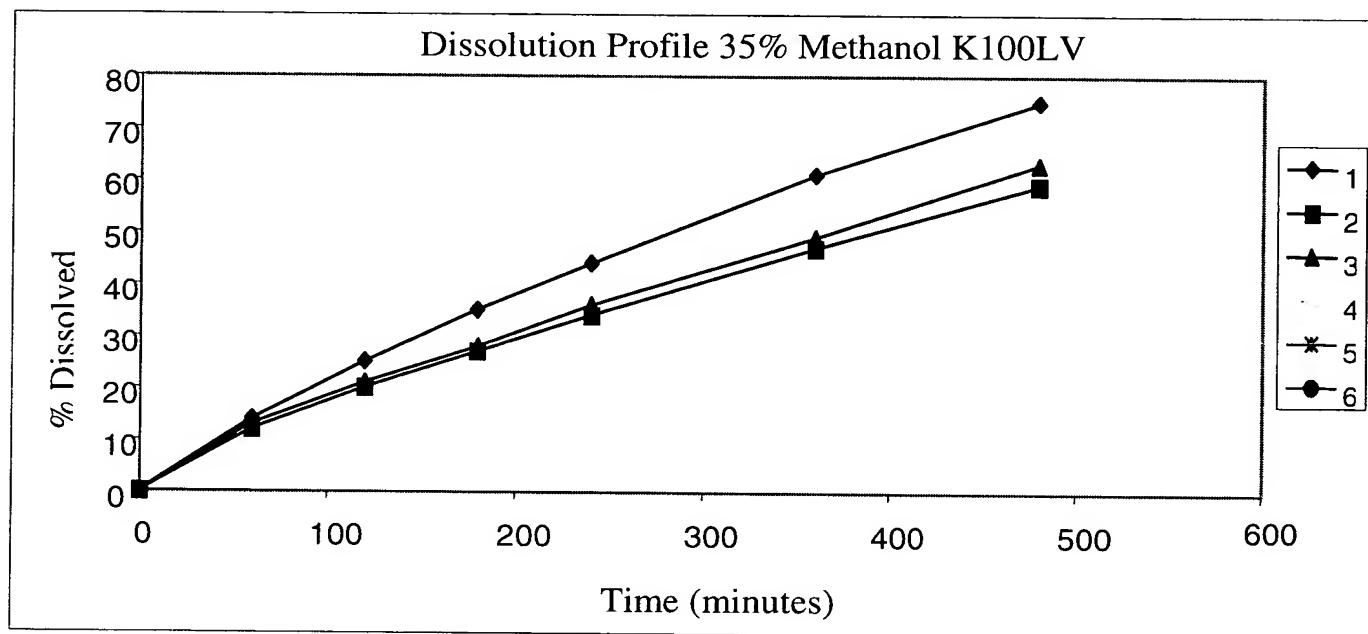
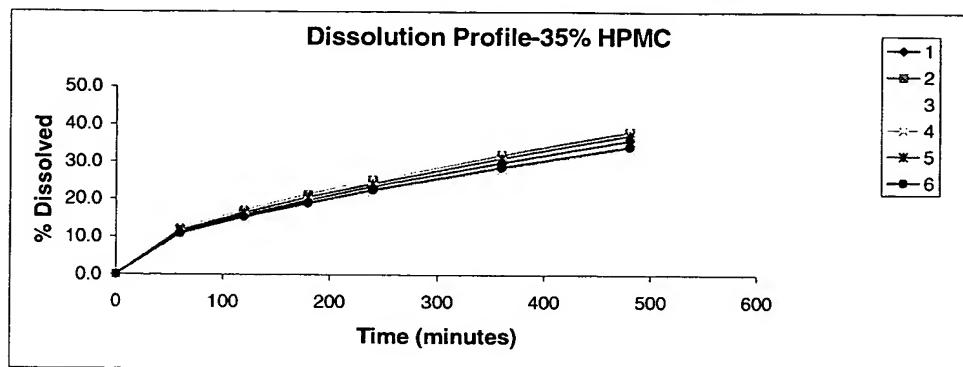


Figure 3b) Matrix Tablets from Example 1 with 25% polymer

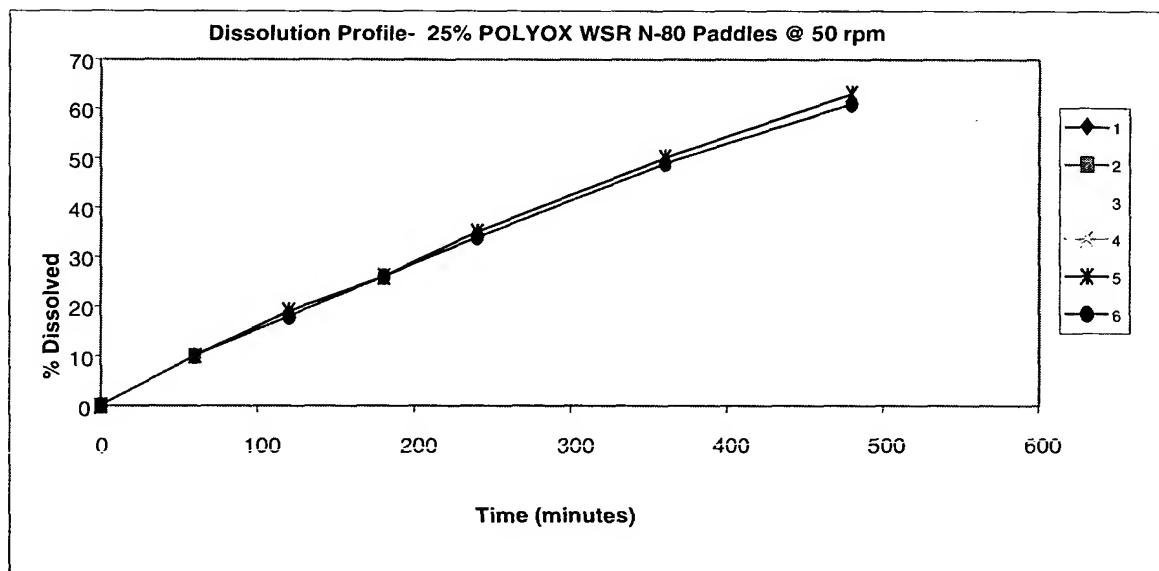
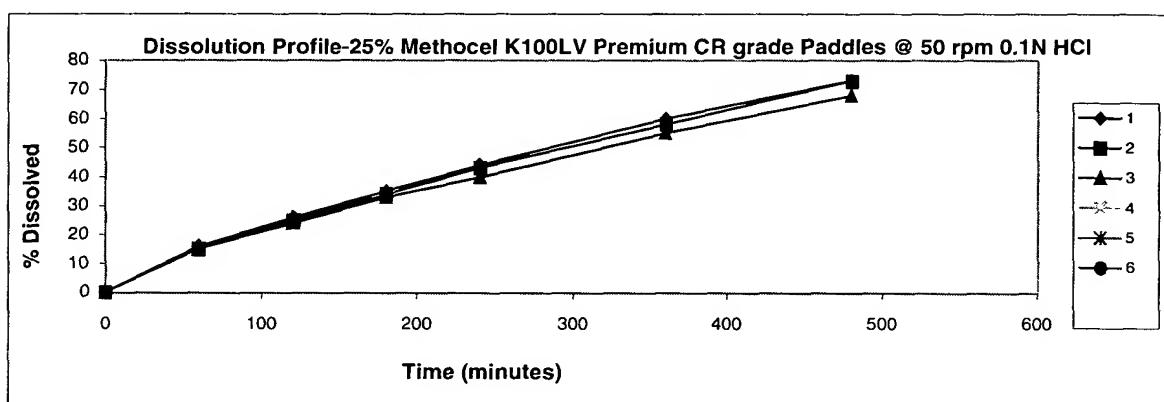
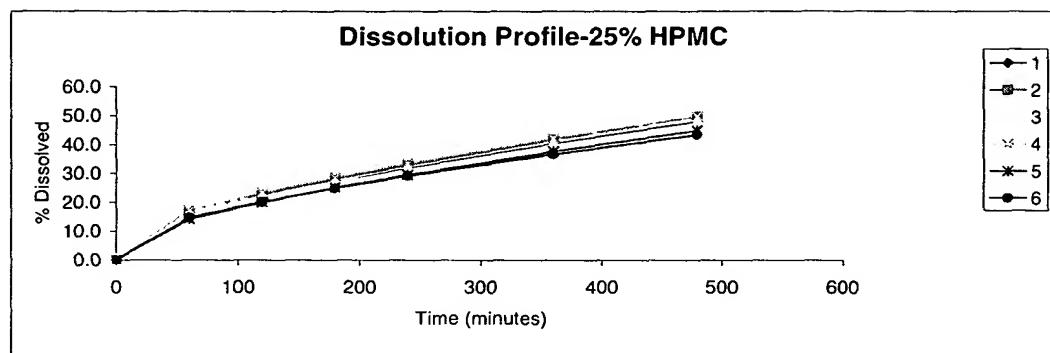
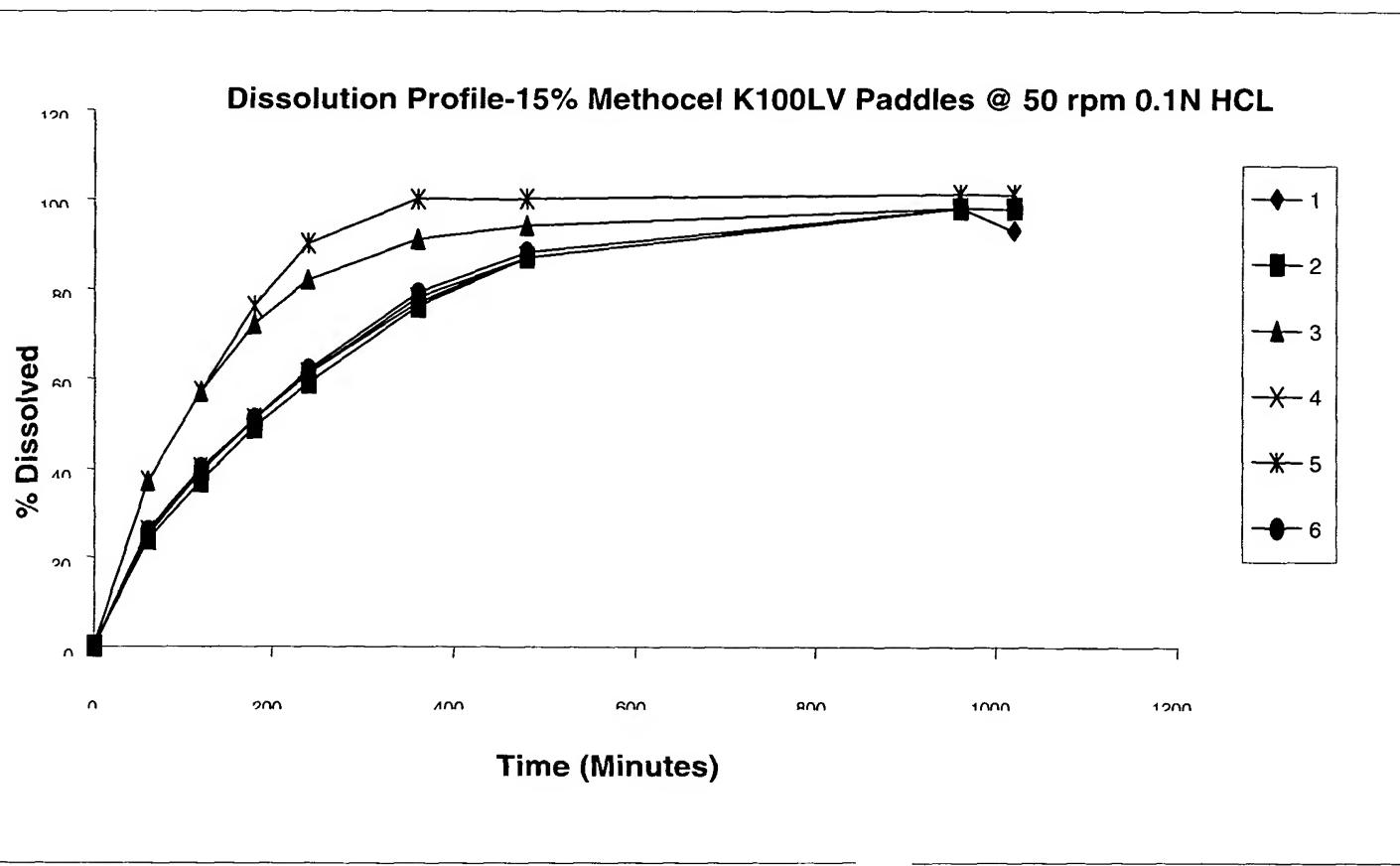
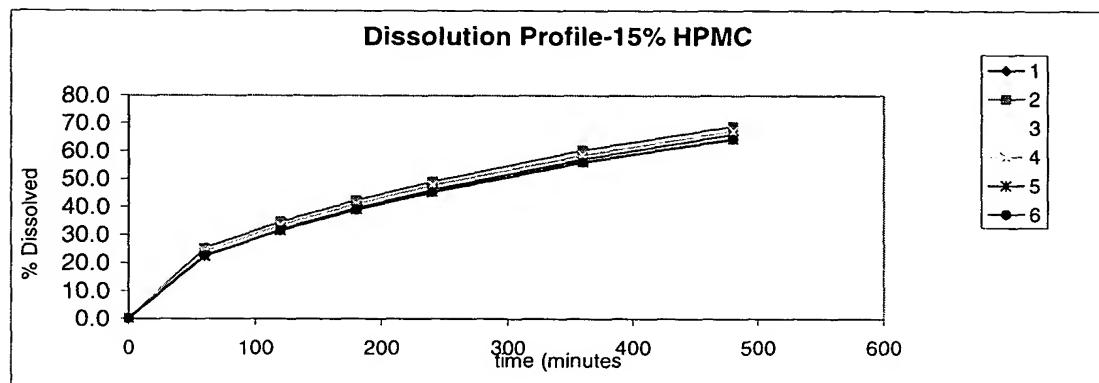


Figure 3c) Matrix tablets from Example 1 with 15% polymer



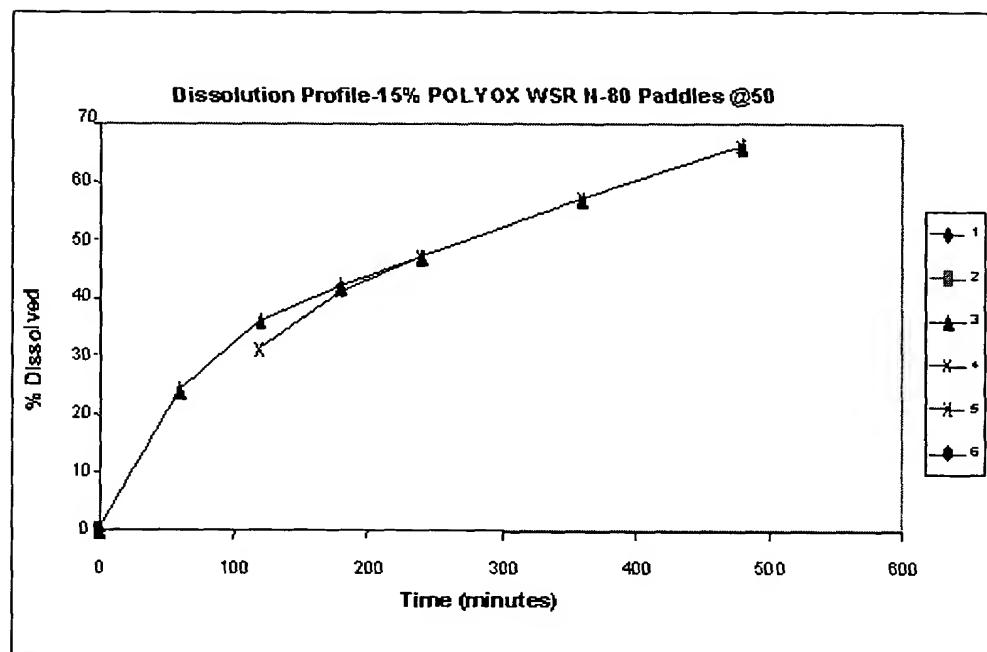
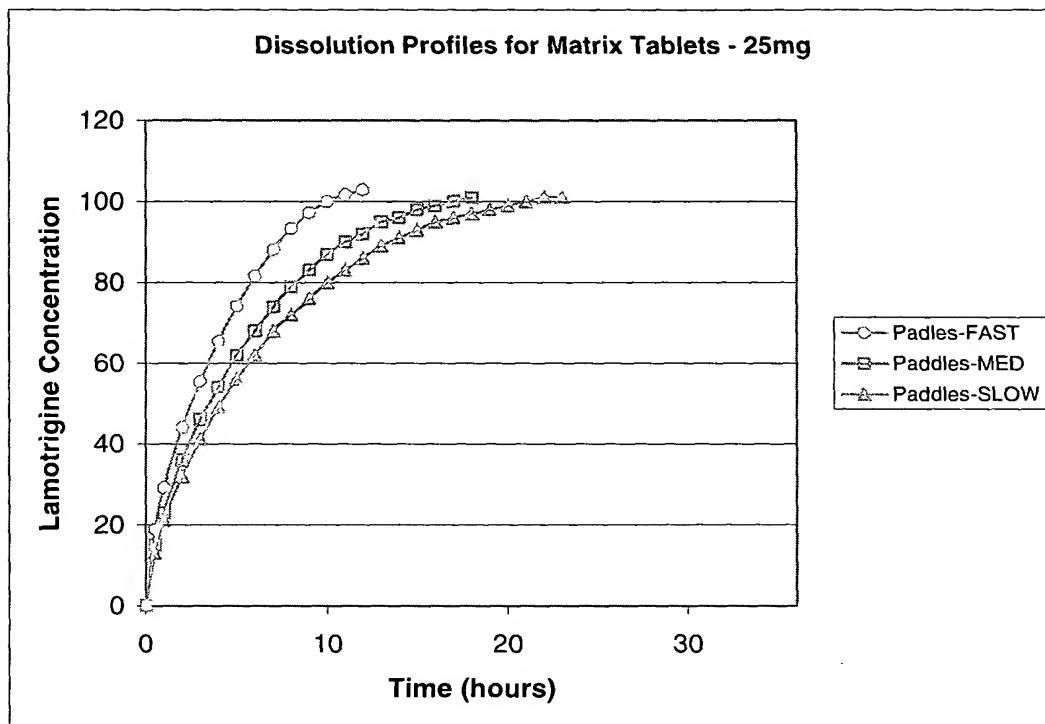
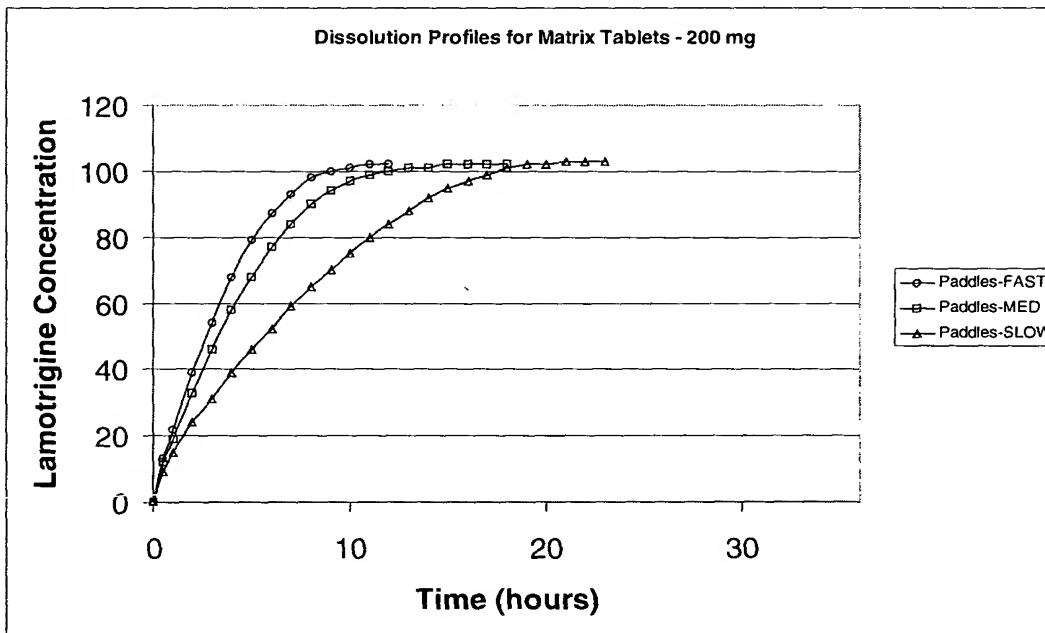


Figure 4. Dissolution profile from the matrix tablet of Example 2b.



"Paddles" indicates the dissolution method, Fast/medium/slow indicate the release rates as set out in the table in Example 2b

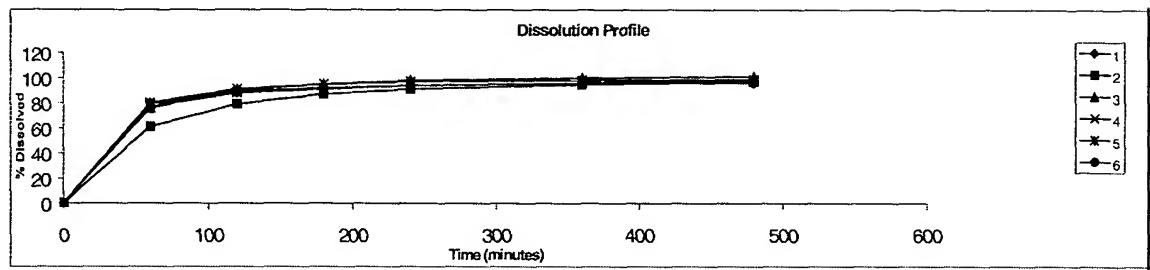


"Paddles" indicates the dissolution method, Fast/medium/slow indicate the release rates as set out in the table in Example 2b

Figure 5 – Dissolution Profile for tablets with 3% and 5% weight gain with a 80%Surelease, 20%Opadry coating.

Lamotrigine Sustained Release  
80%Surelease 20% Opadry 3% weight gain

5



Lamotrigine Sustained Release

80% Surelease 20% Opadry 5 % weight gain

10

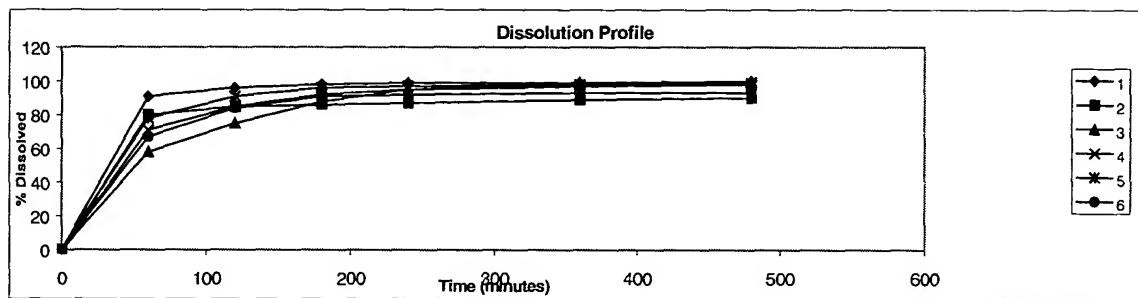
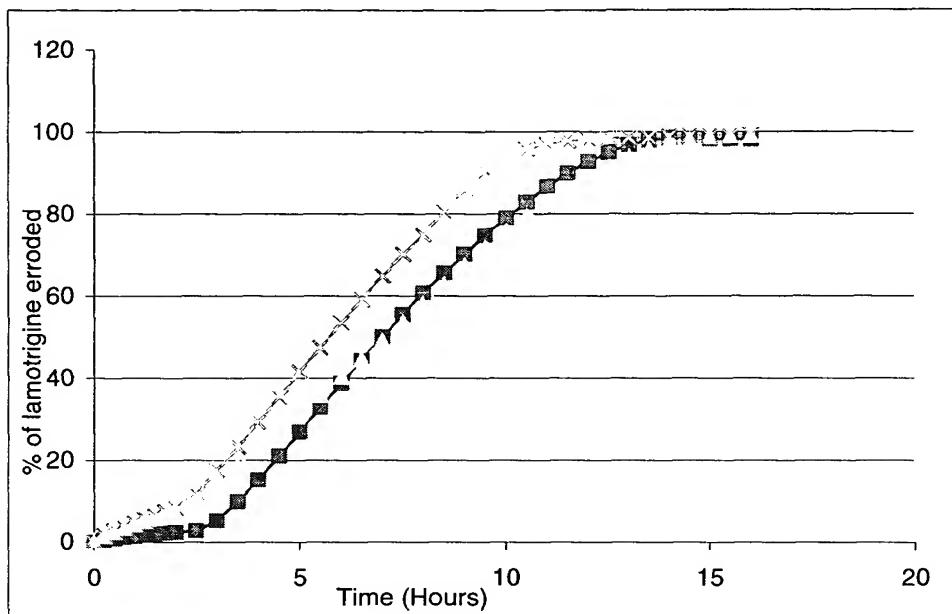


Figure 6: Dissolution profile of Lamotrigine DiffCORE tablets 25 mg and 200mg.



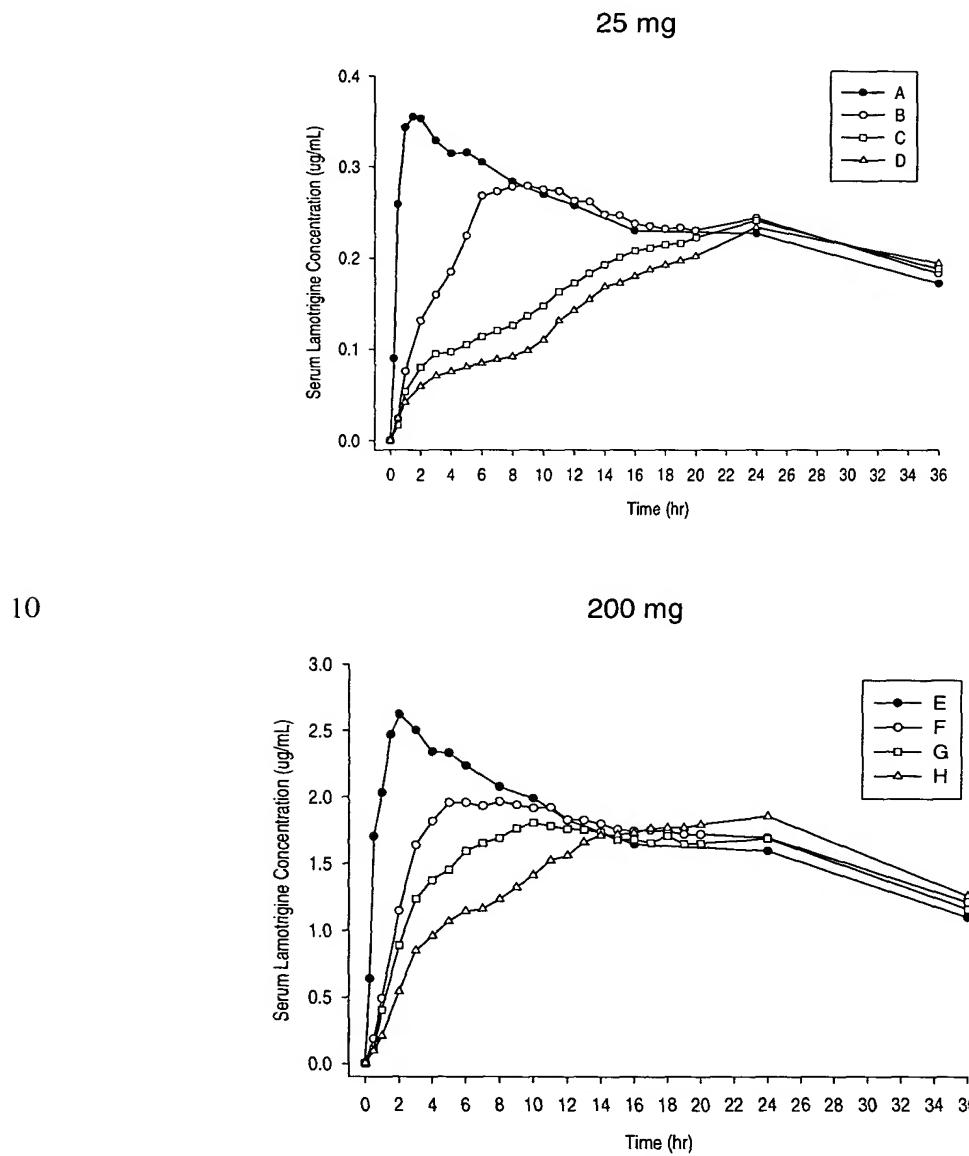
X – represents 25mg fast

▲ - represents 25 mg slow

5 ■ - represents 200mg slow

Figure 7:

Serum Lamotrigine Concentration over a 0 – 36 hour period for 25mg and 200mg matrix tablets of lamotrigine (Example 2) compared with the standard commercially available instant release (IR) tablets.



A	LAMICTAL IR 25mg	E	LAMICTAL IR 200mg
B	LAMICTAL 25 mg matrix tablet - fast release –6 hour	F	LAMICTAL 200 mg matrix tablet – fast release - 6hr release rate
C	LAMICTAL 25mg matrix tablet - medium release rate - 12hr release rate	G	LAMICTAL 200mg matrix tablet – medium release rate -12hr release rate
D	LAMICTAL 25mg matrix tablet – slow – release rate - 16hr release rate	H	LAMICTAL 200mg matrix tablet – slow release rate- 16hr release rate